

What is claimed:

1. A laminated glass comprising two glass sheets, a polyvinylchloride interlayer located between the two glass sheets, and an adhesive layer located between the interlayer
5 and each of the two glass sheets, wherein at least one of the adhesive layers is formed from a material comprising a polyurethane, a polyester or a combination thereof.
2. The laminated glass according to claim 1, wherein the polyvinylchloride interlayer is annealed.
3. The laminated glass according to claim 1, wherein the polyester and the
10 polyurethane have a glass transition temperature ranging from 50°C to 120°C.
4. The laminated glass according to claim 1, wherein each adhesive layer is formed from a material comprising a polyurethane, a polyester or a combination thereof.
- 15 5. The laminated glass according to claim 1, wherein at least one adhesive layer is formed from a material comprising a polyurethane.
6. The laminated glass according to claim 4, wherein one or each adhesive layer is formed from a material comprising a polyurethane.
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7. The laminated glass according to any one of claims 1 to 6, wherein the polyurethane is an aliphatic polyurethane.
8. The laminated glass according to claim 7, wherein the aliphatic polyurethane is an
25 aliphatic polyester-polyurethane.
9. The laminated glass according to claim 8, wherein the aliphatic polyester-polyurethane comprises a hexane diol adipate polyurethane.

10. The laminated glass according to claim 1, wherein at least one adhesive layer is formed from a material comprising a polyester.
11. The laminated glass according to claim 4, wherein one or each adhesive layer is
5 formed from a material comprising a polyester.
12. The laminated glass according to any one of claims 1 to 4, 8 and 11, wherein the polyester is an aliphatic polyester.
- 10 13. The laminated glass according to claim 12, wherein the aliphatic polyester is an aliphatic unsaturated polyester.
14. The laminated glass according to claim 13, wherein the aliphatic unsaturated polyester comprises a sulphonate-substituted oil free polyester.
- 15 15. The laminated glass according to claim 1, wherein the adhesive layer formed from a material comprising a polyurethane, a polyester or a combination thereof is derived from a waterborne or water reducible emulsion.
- 20 16. The laminated glass according to claim 1, wherein the adhesive layer formed from a material comprising a polyurethane, a polyester or a combination thereof contains one or more additives selected from an anti-blocking agent, a silane coupling agent, a wetting agent, a dye and a pigment.
- 25 17. The laminated glass according to claim 1, wherein the adhesive layer formed from a material comprising a polyurethane, a polyester or a combination thereof has a thickness ranging from about 5 microns to about 70 microns.
18. The laminated glass according to claim 17, wherein the adhesive layer has a
30 thickness of about 10 microns.

19. A polyvinylchloride film for use as an interlayer in laminated glass, the film comprising a polyvinylchloride interlayer having first and second opposing sides and an adhesive layer formed from a material comprising a polyurethane, a polyester or a combination thereof provided on the first opposing side thereof.

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20. The polyvinylchloride film according to claim 19, wherein the polyvinylchloride interlayer is annealed.

21. The polyvinylchloride film according to claim 19, wherein the polyester and the
10 polyurethane have a glass transition temperature ranging from 50°C to 120°C.

22. The polyvinylchloride film according to any one of claims 19 to 21, further comprising an adhesive layer provided on the second opposing side of the polyvinylchloride interlayer.

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23. The polyvinylchloride film according to claim 22, wherein the adhesive layer provided on the second opposing side of the polyvinylchloride interlayer is formed from a material comprising a polyurethane, a polyester or a combination thereof.

20 24. The polyvinylchloride film according to claim 23, wherein the adhesive layer provided on the first and/or the second opposing sides of the polyvinylchloride interlayer is formed from a material comprising a polyurethane.

25 25. The polyvinylchloride film according to claim 24, wherein the polyurethane is an aliphatic polyurethane.

26. The polyvinylchloride film according to claim 25, wherein the aliphatic polyurethane is an aliphatic polyester-polyurethane.

30 27. The polyvinylchloride film according to claim 26, wherein the aliphatic polyester-polyurethane comprises a hexane diol adipate polyurethane.

28. The polyvinylchloride film according to claim 23, wherein the adhesive layer provided on the first and/or the second opposing sides of the polyvinylchloride interlayer is formed from a material comprising a polyester.

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29. The polyvinylchloride film according to claim 28, wherein the polyester is an aliphatic polyester.

30. The polyvinylchloride film according to claim 29, wherein the aliphatic polyester is an aliphatic unsaturated polyester.

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31. The polyvinylchloride film according to claim 30, wherein the aliphatic unsaturated polyester comprises a sulphonate-substituted oil free polyester.

32. The polyvinylchloride film according to claim 19, wherein the adhesive layer formed from a material comprising a polyurethane, a polyester or a combination thereof is derived from a waterborne or water reducible emulsion.

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33. The polyvinylchloride film according to claim 19, wherein the adhesive layer formed from a material comprising a polyurethane, a polyester or a combination thereof contains one or more additives selected from an anti-blocking agent, a silane coupling agent, a wetting agent, a dye and a pigment.

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34. The polyvinylchloride film according to claim 19, wherein the adhesive layer formed from a material comprising a polyurethane, a polyester or a combination thereof has a thickness ranging from about 5 microns to about 70 microns.

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35. The polyvinylchloride film according to claim 34, wherein the adhesive layer has a thickness of about 10 microns.

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36. A method of preparing a laminated glass comprising a polyvinylchloride interlayer located between two sheets of glass, which method comprises bonding the interlayer to the glass sheets using an adhesive layer located between the interlayer and each glass sheet, wherein at least one of the adhesive layers is formed from a material comprising a polyurethane, a polyester or a combination thereof.

37. The method according to claim 36, which further comprises annealing the interlayer prior to bonding it to the glass sheets.

38. The method according to claim 36, wherein the polyester and the polyurethane have a glass transition temperature ranging from 50°C to 120°C.

39. The method according to claim 36, wherein each adhesive layer is formed from a material comprising a polyurethane, a polyester or a combination thereof.

40. A method of preparing a laminated glass comprising a polyvinylchloride interlayer located between two sheets of glass, which method comprises locating a polyvinylchloride film as claimed in claim 22 between the glass sheets, and effecting bonding of the film to the glass sheets.

41. A laminated glass prepared by the method of any one of claims 36 to 39.

42. A laminated glass prepared by the method of claim 40.

43. A method of preparing a polyvinylchloride film comprising a polyvinylchloride interlayer having first and second opposing sides for use as an interlayer in laminated glass, the method comprising applying an adhesive layer formed from a material comprising a polyurethane, a polyester or a combination thereof to the first opposing side of the interlayer.

44. The method according to claim 43, further comprising applying an adhesive layer to the second opposing side of the polyvinylchloride interlayer.

45. The method according to claim 43 or 44, which further comprises annealing the
5 polyvinylchloride interlayer after the or each adhesive layer has been applied thereto.

46. The method according to claim 43, wherein the polyester and the polyurethane have a glass transition temperature ranging from 50°C to 120°C.

10 47. The method according to claim 44, wherein the adhesive layer applied to the second opposing side of the interlayer is formed from a material comprising a polyurethane, a polyester or a combination thereof.

48. A polyvinylchloride film prepared by the method of claim 43.